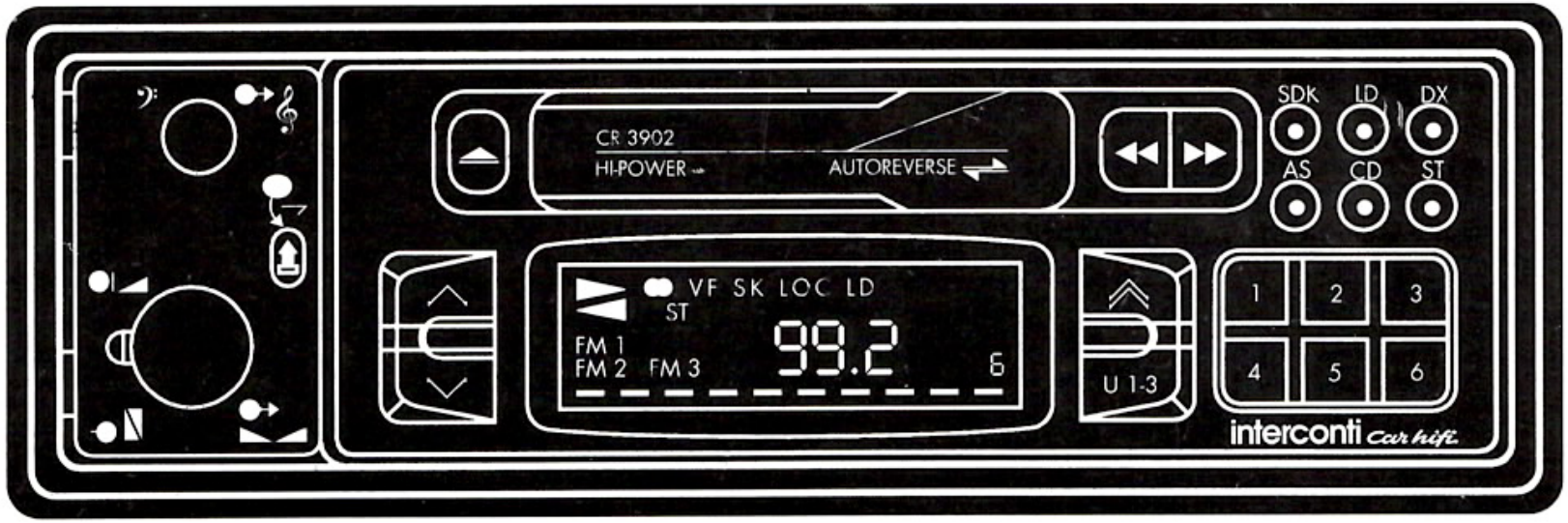
CR 3902 / CR 3903 / CR 3904 / CR 3907

Einbau- und Bedienungsanleitung
Montage et notice d'emploi
Installation- and instruction manual
Instrucciones de manejo y de montaje
Inbouw- en gebruiksaanwijzing



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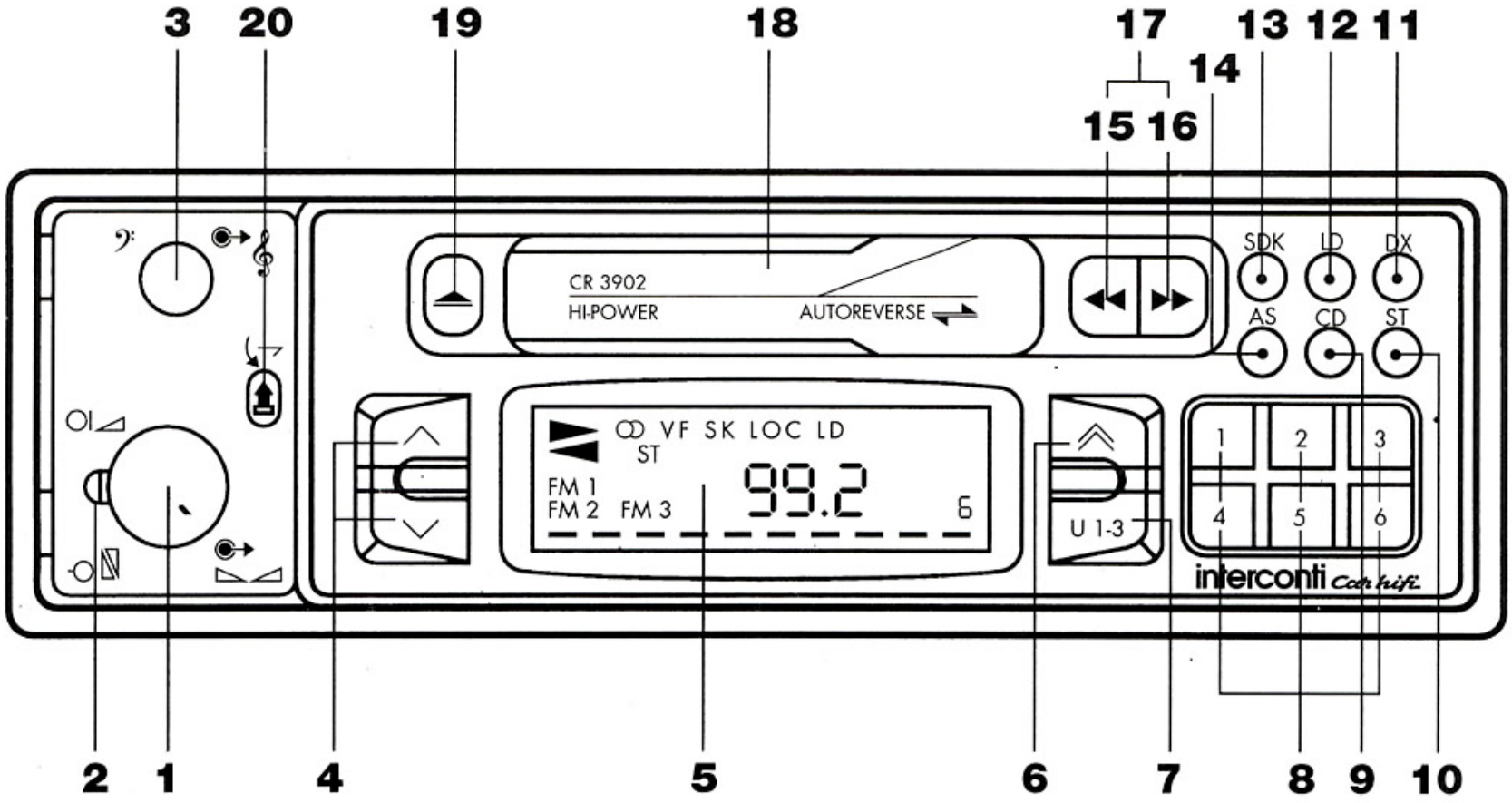
Car hifi

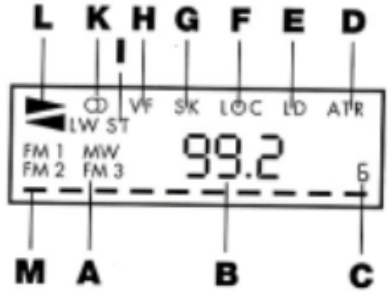
Bedienungselemente und Anzeigen, Instructions et données d'emploi, Operating controls and displays, Parte dell'utilización e indicadores, Bedienungselementen en aanduidingen



Summary instruction

1 On/Off - Volume control;
Balance control (pull)
2 Fader-control
3 Bass control, Treble control (pull)
4 SEEK - manual tuning in two directions
5 LCD-display
6 SEEK - automatic tuning
7 CR 3902/ CR 3904/ CR 3907: U 1-3 FM-bands
CR 3903: Wave range selector
8 Station buttons 1-6
9 Switch for CD operation mode
10 Stereo/mono-switch
11 Local/DX-seek sensitivity
12 Loudness-button
13 CR 3902 / CR 3904/ CR 3907: Traffic announcement SDK
CR 3903: AR Auto retune
14 Autostore;
P-SCAN-control
15/16 Fast forward and rewind
17 Autoreverse/ change track
18 Cassette door
19 Cassette eject
20 Knop for detachable panel

Symbols in the display



A CR 3902/ CR 3904/ CR 3907: FM range display (FM 1, FM 2, FM 3)
CR 3903: Wave range display (FM 1, FM 2, FM 3, MW, LW)
B Frequency display
C Indicator of program key number
D CR 3903: Indicator of AR function
E Loudness-indicator
F Local/DX-indicator
G CR 3902 / CR 3904 / CR 3907: SK-indicator; road report station is picked up
H CR 3902 / CR 3904 / CR 3907: SDK-traffic announcement indicator
I Stereo reception indicator
K Indication of stereo symbol CD; stereo-reception
L Tape run/ direction display
M Volume level indication

Precautionary measures

Note!
Before installation/connection of the unit, the following instructions should be followed:

1. The unit may only be connected to the earth in cars with a battery voltage of 12 volts and negative pole.
2. Avoid positions where the unit is exposed to direct sunlight or extreme temperatures.
3. In order to avoid a short circuit during the installation, pinch off the earthing lead from the battery. If your car is provided with a board computer, please take note of the instructions given in the car manual (in case any data are stored, it is recommended to write them down).
4. Faulty cable connections may cause serious damage to your stereo unit.

A NEVER connect the (-) cables of the left and right loudspeaker to each other.

B NEVER join the (-) connections of loudspeaker cables to the car chassis.

C DO NOT lay the cables at places, where they might be buckled or squeezed.

D NEVER leave the loudspeaker binding screws or cable ends without isolation, since you might cause a short circuit by the contact with the auto body.

Note!
Please remove deck stopper before using.

Your radio is fitted with a detachable panel section. Please follow the following instructions in this respect:

1. You MUST avoid any contact between the contacts on the detachable portion and those on the radio itself.
2. Do not expose the detachable front part to direct sunlight or extreme variations in temperature.
3. Do not allow solvents or similar fluids to touch contacts.
4. Please store the front portion of the radio correctly and do not mishandle it, as this could cause damage. For correct storage, keep the front portion in the plastic bag provided.

Operation of the radio section

On/Off - Volume control
Turn the control **1** clockwise to turn on the unit and increase volume. Turn the control counterclockwise to decrease volume.

Balance control
Pull and rotate the control **1** clockwise to increase the right speaker volume, counterclockwise to increase the left speaker volume. You should be able to feel the mid position of this control at this point. Volume from left and right should be equal.

Fader control
Rotate the control **2** clockwise to increase rear speaker volume. Turn counterclockwise to increase front speaker volume. In the mid position volume from left and rear speakers should be equal.

Tone control
By means of the control **3** , adjust the tone to your individual acoustic feeling.
Turn control **3** - bass control
Pull and turn control **3** - treble control

Manual station finding
After choose of a desired wave band depress one of the keys **4** in whatever direction. Now you manually choose any desired station on your own. The FM-reception range can be adjusted in intervals of 50 kHz. (Only CR 3903: The AM-reception range can be adjusted in intervals of 9 kHz and the LW-reception in intervals of 1 kHz.)

Automatic station finding
By depressing the button **6** the station finding function starts, and stops as soon as the first of satisfactory reception is found. If the button is actuated again, the function is resumed until the next station is found. Owing to the high reception stability ensured by quartz precision, the station tuned is permanently indicated in the display **5**.

CR 3902/ CR 3904/ CR 3907: FM-band selector
The unit is fit out with three FM-wavebands (FM1, FM2, FM3). For each waveband six stations are available. To select the desired mode of reception push button U1-3 **7**. An indicator will light in the display window **5** to show which mode you have chosen.

CR 3903:
Wave range selector
The unit is fit out with three FM-wavebands, one AM-waveband and one LW-waveband. For each waveband six stations are available. To select the desired mode of reception push button BD **7**. An indicator will light in the display window **5** to show which mode you have chosen.

Station selector pushbuttons 1-6
For a permanent storage of 18 FM-stations (for CR 3903 additionally 6 AM-stations and 6 LW-stations), the program memories 1 to 6 (keys **8**) are available. It is not possible to choose one of the station selector buttons during SDK-function.

Allocation to the program memories
If you wish to store a certain station just being received, depress one of the keys **8** without releasing it. The indicator of the according program key number appears in the display window, when the station is memorized. An allocation to the program memories is not possible during SDK-function.

CD button
Depress button **9**, if a CD-player is connected and you want to change to CD operational mode. The display indication shows "Cd".

Stereo-/mono-reception
Push button **10** if you wish to receive a FM-station which airs a stereo broadcast in the course of its program. The "ST"-display appears. The display additionally shows the symbol ⊂⊃ if a FM-station with stereo broadcast will be received.

Local-/DX-sensitivity
The unit is fit out with two seek-sensitivities, which you can switch on manually. One step on button **11** and you can choose between DX-seek-sensitivity; strong and week stations are received, and Local-seek-sensitivity (the indication "LOC" appears in the display); only strong stations are received.

Loudness
In order to highlight the bass and treble with low volume, press button **12**. The indication "LD" is shown in the display.

Only CR 3902 / CR 3904/ CR 3907: Traffic announcement decoder SDK
If the SDK-button **13** is depressed, your radio regardless wether in manual or automatic station finding or in cassette-mode, exclusively receives those stations which regularly broadcast road reports. The "VF"-display serves as an optimal tuning aid in the display **5**. If a road report station is picked up the "SK" display appears additionally in the display. If the reception is getting too weak, the unit automatically starts after approx. 25 seconds to find another station with traffic announcement. Manual tuning is not possible during SDK-function.

Only CR 3903:
Automatic retune AR
Choose FM mode and push button **13** to activate automatic retune function. "ATR" is shown in the display. In this function your unit recognises when you leave the reception area of the station to which you are tuned. The station search is automatically started and stops at the next station with good reception.

Autostore
Choose a wave band with key **7**. Depress and hold key **14** for two seconds to start the automatic station finding. Automatically six strong stations of each band are stored on the program memory buttons. If you choose the waveband FM1 the unit stores stations on all wavebands. Calling up band FM3 the storing on FM1 and FM2 is memorized. If the memorisation is finished the last received station is played. Autostore function is not possible during SDK-function.
Note: In case you have memorized any stations on these program keys before, these stations are erased now.

P-SCAN -
program memory scan
Push button **14** for a short time and the radio will tune up the frequency scale of each waveband and pause for approx. 6 seconds on each station programmed into memory. The corresponding program memory key number flashes. Push one of the station buttons **8** or button **14** to stop the P-SCAN process. Program memory scan function is not possible during SDK-function.

Operation of the cassette section

Start
Turn on the radio set by means of button **1** and push the cassette into the cassette shaft **18**. The tape travel direction is indicated by the display **5**.

Volume, tone, balance
These adjustments have to be made described in the section "Operation of the radio section ".

Fast forward and fast rewind
The tape direction display shows if normal operational mode or reverse mode is chosen.
Normal operational mode: The tape direction display ▶ is shown in the display **5**. In order to fast forward the tape depress key **16**, and to fast rewind depress key **15** until it is locked.
Reverse mode: The tape direction display ◀ is shown in the display **5**. For fast forwarding depress key **15**, and for fast rewinding depress key **16** until it is locked.
To stop the corresponding function, only depress the key of the contrary function.

Autoreverse
At the end of the tape, the tape travel direction changes automatically, so that you hear the other side of the cassette.

Change of tracks
Simultaneously depress key **15** and **16** in order to change from one track to the other while in cassette mode **17**.

Cassette ejection
To withdraw the cassette, firmly depress key **19**. The unit automatically switches over to radio reception.

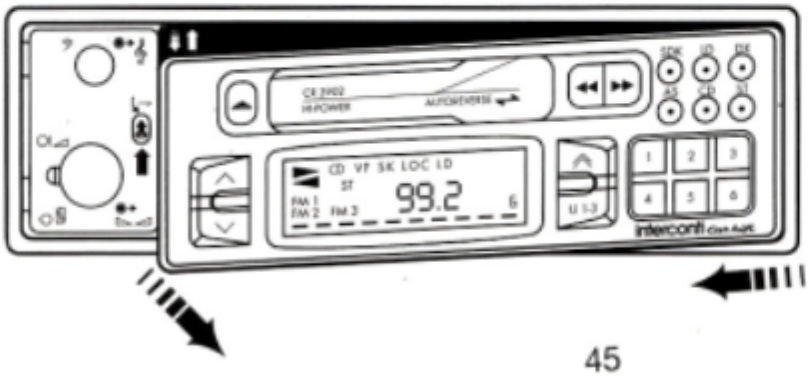
Anti-theft device: removable front part and LED alarm

Removing the front part of the radio
Pressing key **20** releases the front of the radio at the left-hand side. The front part will now slide out of its mounting to the left. Now support the control panel at the left-hand side and pull the front forwards to remove it from the left-hand mounting. You can now remove the whole control panel. Store it in the plastic bag and keep it away from damp and excessive heat.

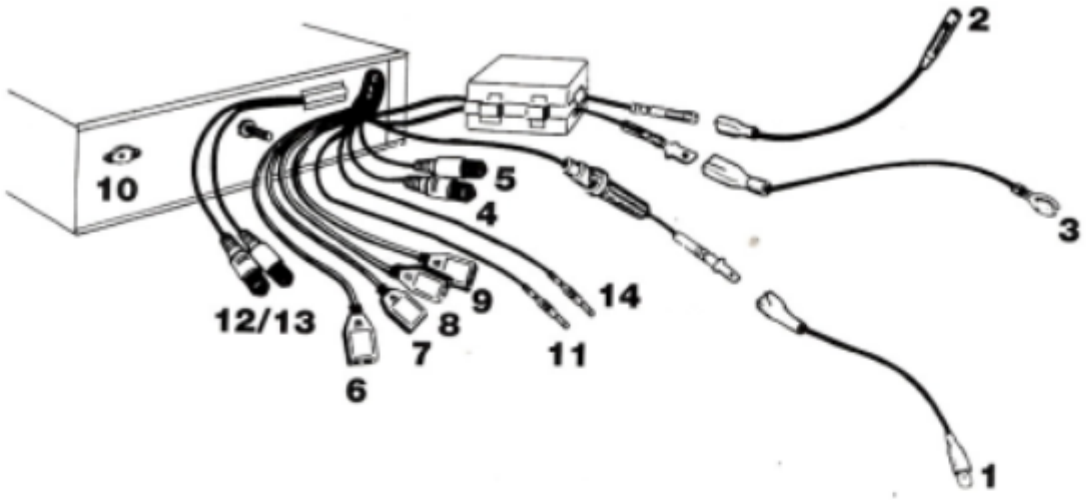
Replacing the front part of the radio
Insert the front part into the right-hand side of the opening as far as the catch. By placing slight pressure on the left-hand side you will hear the front part click into the mounting. Now check just to see that the part is securely in place.
N.B. If the front part has not been correctly replaced there will be no power supply.

Security LED alarm
Further security is provided by the optical LED alarm. The LED flashes when the control panel is removed from the radio.

Note:
1. Do not use undue force when removing and replacing the control panel.
2. You must not touch the contacts on the radio or on the detachable front portion.
3. Do not expose the control panel to dirt, direct sunlight, high temperatures or chemical substances (e.g. petrol)



Connection instruction



1 **Positive plus (+) 12 volts/ red**
2 **(+) 12 volts battery/ memory/ pink**
3 **Negative grounding (-)/ black**
4/5 Amplifier outputs/ grey-red/ grey-white
6 Loudspeaker right rear/ green with blue stripes
7 Loudspeaker left rear/ green with red stripes
8 Loudspeaker right front/ grey with blue stripes
9 Loudspeaker left front/ grey with red stripes
10 Antena socket
11 Trip line for fully automatic motor aerial/ white
12/13 External input for CD-player/ black-red/ black-white
14 CR 3907: External connection for illumination of scale, controls/ orange

Connection instructions

Ground (-) connection
(6,3 mm plug)
Connect to the car chassis (-) via the black connection lead.
Note: Ground over antena socket is not sufficient.

Uninterupted (+) 12 volt-connection
(2,8 mm plug)
Connect to uninterupted positive supply, terminal 30 (behind the car fuse) via the connection lead.

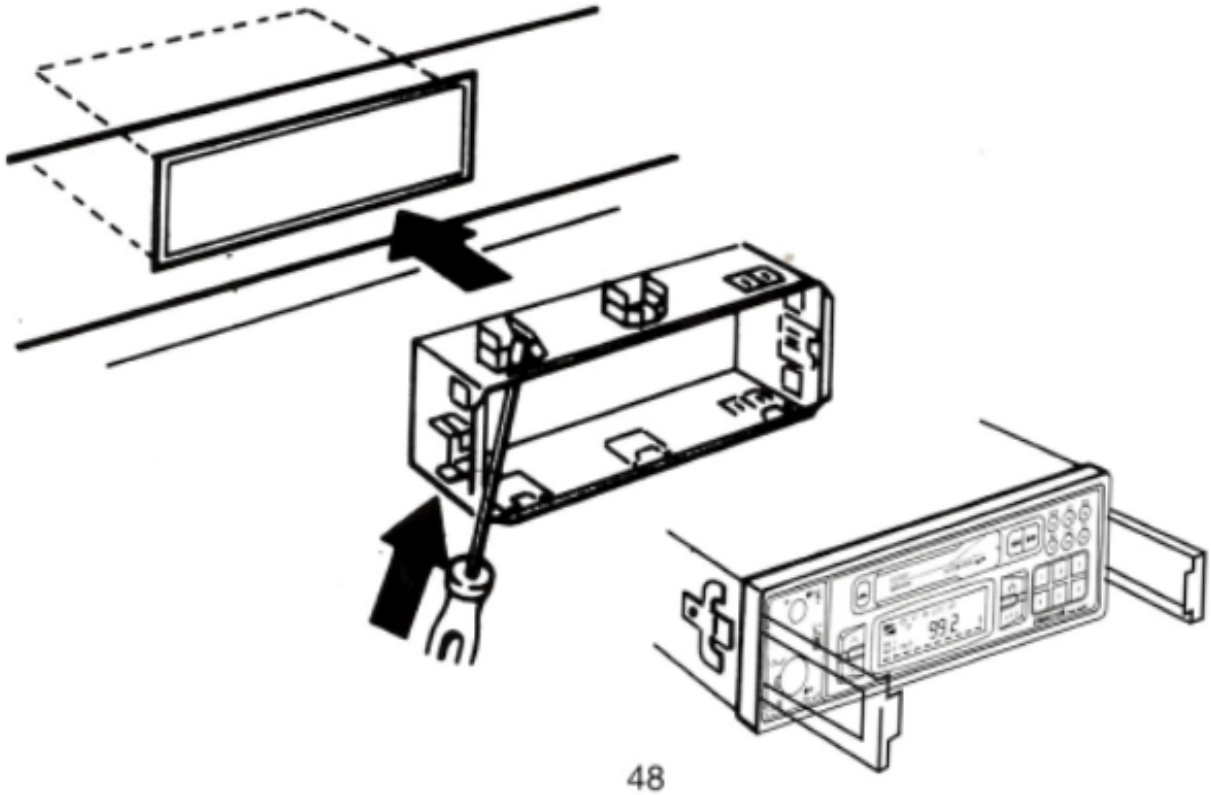
Plus (+) 12 volt-connection
(6,3 mm plug)
Connect the connection cable to fuse holder terminal 15 switched by the ignition switch or to uninterupted positive supply terminal 30 (behind the fuse).

Aerial for fully automatic motor aerial
(flat plug 2,8 mm)
This connection is designed for a fully automatic motor aerial (trip line) or for an electronical aerial. This connection is also designed as trip line for external booster.
Attention!
This connection must not come into contact with the ground, when the unit is switched on.

Connection for external CD-player
(Cinch)
At this jack connections, an additional CD-player may be connected.

Connection for additional amplifier
(Cinch)
At this jack connections, an additional amplifier may be connected, in order to achieve an improved output power and a better tone quality.

CR 3907:
External connection for illumination of scale, controls/ orange
(2,8 mm flat plug)
Control regulation of scale illumination via instruments illumination of car dimmer.



Preparation for the installation of the unit

Fastening of the installation frame
The unit corresponds to DIN-ISO 7736, and is suited for being installed in the dashboard or central console with standard aperture. If necessary, then installation aperture should be enlarged to 182 x 53 mm.

Installation of the unit
Slide the supplied installation frame into the installation aperture. For fastening the frame, the brackets behind the installation aperture have to be bent toward the outside, if necessary, by means of a screwdriver.

When you have connected the unit according to the above instructions, slide it into the installation frame until about half of it is inserted. First reconnect the earthing lead of the battery, and - by observing these operation instructions - make sure that the unit is in perfect operating condition. Then insert the unit into the installation frame, until it reaches the stop. When the unit is completely incorporated, the lateral springs on the unit will engage in the corresponding recesses of the frame.

Disassembly of the unit

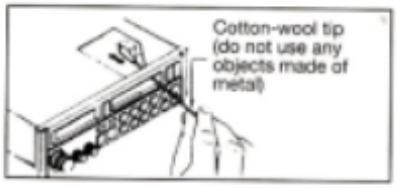
Disassembly of the unit
Using the special keys provided, remove the radio from its holdings. Make sure you insert the keys horizontally into the upper recesses of the radio until they catch. Now pull the radio out of its holdings with the help of the keys which by now are rigidly locked in position.

Servicing instructions

We recommend to use tape cassettes of the C 60 type. If you chose cassettes of reputable manufactures, you may be sure that the contamination of the track system is kept at the minimum, and that the casstte has excellent tracking properties. A high reproduction quality is given in case of cassettes made of pure iron (metal), iron oxyd, chromium dioxide and ferrochromium. Always keep your cassettes in boxes protecting them against dust and dirt. Extreme temperatures above 50 C, which may for example be the result of direct exposure to sunlight, can damage your tape cassettes. If your cassettes were left in the car in frosty weather, wait until they get a little bit warmer, before you play them. In this way, irregularities in tape travel can be avoided.

Depending on the quality of cassette, travelling and tone disturbances my occur after approx. 100 hours of operating. This is due to dust particles released from the cassette deck, which are deposited on the rubber pinch roller, and on the head. In case of a slight, normal extent of dirt, these parts may be cleaned by means of **CC 33591, the interconti wet cleaner for cassette decks**.

In case of a strong extent of dirt on the magnetic head (treble is lacking) it is advisable to clean it with a cotton-wool tip that has been steeped into spirit of wine (see fig.)



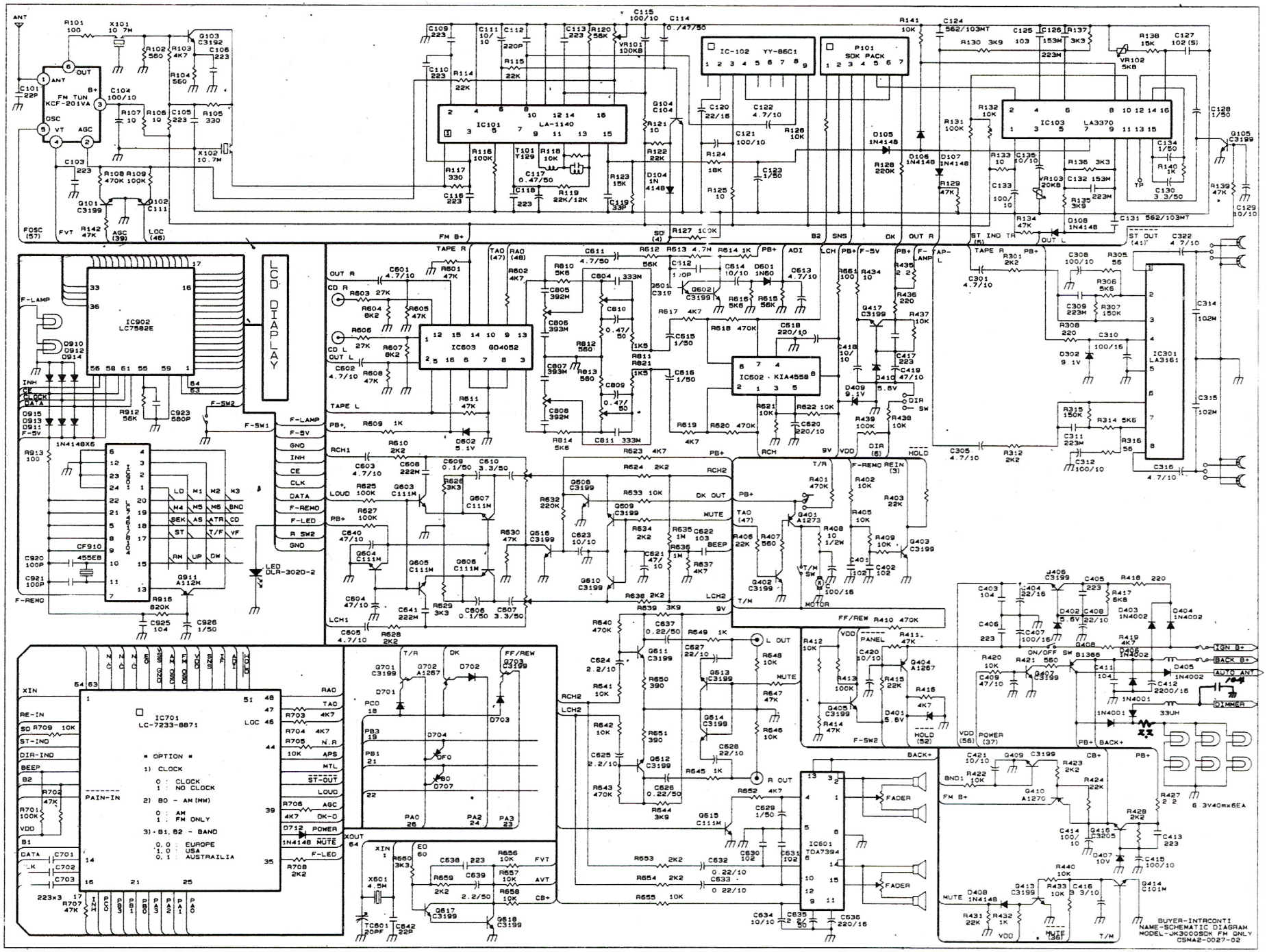
Technical data

radio section FM	
frequency range	87,5 - 108 MHz
sensitivity	< 1,5 µV
only for CR 3903: radio section AM	
frequency range	531 - 1620 kHz
only for CR 3903: adio section LW	
frequency range .	153 - 281 kHz
cassette section	
wow and flutter	< 0,3 %
amplifier section	
output power	2 x 40 watts or 4 x 20 watts
frequency range	30 - 16000 Hz
impedance	4 ohms
dimensions W x H x D	178 x 50 x 150 mm

CE 95

Made in Indonesia.

Remark:
For purpose of product improvement, the technical data and t


IC701
LC-7233-8871
IC902
LC7582E
IC601
TDA7394
IC103
LA3370
IC301
LA3161
IC101
LA-1140
IC102
YY-86C1
P101
50K PACK
IC603
GD4052
IC502
KIA4558
FM TUN
KCF-201VA
LED
DLR-3020-2
* OPTION *
1) CLOCK
0 : CLOCK
1 : NO CLOCK
2) BD - AM(MW)
0 : AM
1 : FM ONLY
3) B1, B2 - BAND
0, 0 : EUROPE
1, 0 : USA
0, 1 : AUSTRALIA
PAIN-IN
F-LAMP
F-REMO
F-SW1
F-SW2
F-LED
R SW2
INH
CE
CLOCK
DATA
F-5V
GND
CD R
CD L
TAPE R
TAPE L
DK OUT
MUTE
L OUT
R OUT
FADER
FF/REW
T/R
T/M
HOLD
PANEL
ON/OFF SW
DIR SW
DIMMER
IGN B+
BACK B+
AUTO ANT
BACK+
FM B+
VDD
MOTOR
BUYER-INTRCONTI
NAME-SCHEMATIC DIAGRAM
MODEL-JK3000SDK FM ONLY
CSMA2-0027-02

SECURITY SYSTEM
intercont
Diebstahlgesichert
Anti-theft
Anti-vol
Diefstalbeveiliging
SECURITY SYSTEM
intercont